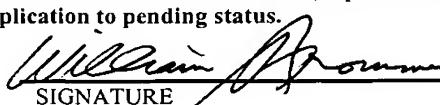


FORM PTO-1390 (REV. 12-2001)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 452010-2380
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.56) <b>10/089747</b>
INTERNATIONAL APPLICATION NO. <b>PCT/ZA00/00181</b>	INTERNATIONAL FILING DATE <b>5 OCTOBER 2000</b>	PRIORITY DATE CLAIMED <b>5 OCTOBER 1999</b>
<b>TITLE OF INVENTION MEASURING TWIST DUE TO TORQUE IN A ROTATING SHAFT</b>		
<b>APPLICANT(S) FOR DO/EO/US</b> <b>Bartolomomeus Johannes Le Roux CILLIERS and Roelof Grove BLIGNAUT</b>		
Applicants herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ul> </li> <li>8. <input type="checkbox"/> A English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>14. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: PCT/IPEA/409, PCT/ISA/210, 2 sheets of drawings, 1 page abstract, Claim of Priority</li> </ol>		
<b>EXPRESS MAIL</b>		
Mailing Label Number: <b>EV073647285US</b>		
Date of Deposit: <b>April 3, 2002</b>		
I hereby certify that this paper or fee is being deposited with the United States Postal Service		
"Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents and Trademarks, Box PCT Washington, DC 20231.		
(Typed or printed name of person mailing paper or fee)		
(Signature of person mailing paper or fee)		

U.S. APPLICATION NO.(If known, see 37 C.F.R. 1.50) <b>10,089,747</b>	INTERNATIONAL APPLICATION NO. PCT/ZA00/00181	ATTORNEY'S DOCKET NO. 452010-2380																					
21. <input checked="" type="checkbox"/> The following fees are submitted		CALCULATIONS PTO USE ONLY																					
<b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$1040.00  International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... \$890.00  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$740.00  International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$710.00  International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4)..... \$100.00																							
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		<b>\$ 890.00</b>																					
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(c)). <table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> <th>\$</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td><u>35</u> - 20 =</td> <td><u>15</u></td> <td>x \$18.00</td> <td><b>\$ 270.00</b></td> </tr> <tr> <td>Independent Claims</td> <td><u>3</u> - 3 =</td> <td><u>0</u></td> <td>x \$84.00</td> <td><b>\$ 0.00</b></td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$280.00</td> <td>\$</td> </tr> </tbody> </table>			CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	Total Claims	<u>35</u> - 20 =	<u>15</u>	x \$18.00	<b>\$ 270.00</b>	Independent Claims	<u>3</u> - 3 =	<u>0</u>	x \$84.00	<b>\$ 0.00</b>	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$280.00	\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$																			
Total Claims	<u>35</u> - 20 =	<u>15</u>	x \$18.00	<b>\$ 270.00</b>																			
Independent Claims	<u>3</u> - 3 =	<u>0</u>	x \$84.00	<b>\$ 0.00</b>																			
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$280.00	\$																			
<b>TOTAL OF ABOVE CALCULATIONS =</b> <b>\$</b>																							
<input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. 1.27. The fees indicated above are reduced by $\frac{1}{2}$ . <table border="1"> <thead> <tr> <th colspan="2">SUBTOTAL =</th> <th><b>\$1160.00</b></th> </tr> </thead> <tbody> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td>\$</td> </tr> <tr> <td colspan="2"><b>TOTAL NATIONAL FEE =</b></td> <td>\$</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignments (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>\$</td> </tr> <tr> <td colspan="2"><b>TOTAL FEES ENCLOSED =</b></td> <td><b>\$1160.00</b></td> </tr> <tr> <td colspan="2"></td> <td>Amount to be refunded:</td> </tr> <tr> <td colspan="2"></td> <td>charged:</td> </tr> </tbody> </table>			SUBTOTAL =		<b>\$1160.00</b>	Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$	<b>TOTAL NATIONAL FEE =</b>		\$	Fee for recording the enclosed assignments (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$	<b>TOTAL FEES ENCLOSED =</b>		<b>\$1160.00</b>			Amount to be refunded:			charged:
SUBTOTAL =		<b>\$1160.00</b>																					
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$																					
<b>TOTAL NATIONAL FEE =</b>		\$																					
Fee for recording the enclosed assignments (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$																					
<b>TOTAL FEES ENCLOSED =</b>		<b>\$1160.00</b>																					
		Amount to be refunded:																					
		charged:																					
a. <input checked="" type="checkbox"/> A check in the amount of <u><b>\$1160.00</b></u> to cover the above fees is enclosed.  b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.  c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u><b>50-0320</b></u> . A duplicate copy of this sheet is enclosed.  d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.																							
<b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b>																							
SEND ALL CORRESPONDENCE TO:  William S. Frommer, Esq. Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, New York 10151																							
SIGNATURE William S. Frommer NAME <u>25,506</u> REGISTRATION NUMBER																							
Dated: <u>April 3, 2002</u>																							

10/089747  
JC10P 2d B  
PATENT  
452010-23803 APR 2002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : CILLIERS, et al.  
Int'l Appln. No. : PCT/ZA00/00181  
Int'l Filing Date : 5 October 2000  
Title of Invention : MEASURING TWIST DUE TO TORQUE IN A ROTATING SHAFT

745 Fifth Avenue  
New York, NY 10151

**EXPRESS MAIL**

Mailing Label Number: EV 073647277 US  
Date of Deposit: April 3, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents Washington, DC 20231.

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or see)

## CLAIM OF PRIORITY

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 35 U.S.C. 119, this application is entitled to a claim of priority to South African Application No. 99/6182, filed 5 October 1999.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP

1. *Sp. 1* (1980) 10: 103-104.

By. William S. Frommer  
Reg. No. 25,506  
(212) 588-0800

10,089747

JC10 Re 03 APR 2002

Attorney Docket No. 452010-2380

New Patent Application filed **April 3, 2002**, entitled:

**MEASURING TWIST DUE TO TORQUE IN A ROTATING SHAFT**

corresponding to PCT Application No. PCT/ZA00/00181

filed October 5, 2000

Express Mail No.: EV 073647277 US

Date of Deposit: April 3, 2002

I hereby certify that this application and the accompanying papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to:

Box PCT  
Assistant Commissioner for Patents  
Washington, D.C. 20231.

